



Material Safety Data Sheet

LA1350
Potassium Nitrate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: LA1350
Product Name: Potassium Nitrate
Synonyms: None
Chemical Family: Nitrates.
Application: Not Available.

Distributed By:
Univar Canada Ltd.
9800 Van Horne Way
Richmond, BC
V6X 1W5

Prepared By: The Safety, Health and Environment Department of Univar Canada Ltd.
Preparation date of MSDS: 23 January 2006
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Potassium Nitrate 7757-79-1	>99	Oral LD50 (Rat) 3015 mg/kg

Note: No additional remark.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: May irritate eyes.

Skin Contact: May cause skin irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: Flush with copious amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: None.

Flash Point Method: Not applicable.

Autoignition Temperature: Not Available.

Flammable Limits in Air (%): Not Available.

Extinguishing Media: Use DRY chemicals, CO₂, alcohol foam or water spray.

Special Exposure Hazards: Oxidizer. Isolate and restrict area access. Move containers from fire area if you can do it without risk. Containers exposed to intense heat from fires should be cooled with water to prevent vapour pressure build-up which could result in container rupture. Keep away from reducing agents. Will explode if heated to 1000°F in presence of reducing agents, organic materials or mixed with cyanides. Yields gaseous oxides when heated above melting point (1000°F).

Hazardous Decomposition/Combustion Materials (under fire conditions): Oxides of nitrogen. Nitric acid.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: Not Available.

HMIS RATINGS FOR THIS PRODUCT ARE: Not Available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.

Procedure for Clean Up: Scoop up or vacuum up and place in an appropriate closed container.

7. HANDLING AND STORAGE

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage: Store in a cool, dry, well ventilated area. Keep away from reducing agents. Store at ambient temperature.

Flammable materials should be stored in a separate safety storage cabinet or room.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

General (mechanical) room ventilation is expected to be satisfactory.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.

Gloves: Impervious gloves. Butyl rubber gloves.

Skin Protection: Normal work coveralls. Impervious boots.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Potassium Nitrate	Not available.	Not available.	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Prills or Crystals
Colour: White
Odour: Not available.
pH Not Available.
Specific Gravity: 2.109
Boiling Point: Not Available.
Freezing/Melting Point: 334 °C / 633 °F
Vapour Pressure: Not Available.
Vapour Density: Not Available.
% Volatile by Volume: Not Available.
Evaporation Rate: Not Available.
Solubility: Water: 31g / 100cc at 20°C
VOCs: Not Available.
Viscosity: Not Available.
Molecular Weight: Not Available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Avoid any source of ignition. Incompatible materials.
Materials to Avoid: Reducing agents. Combustible material.
Hazardous Decomposition Products: Oxides of nitrogen.
Additional Information:
No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin Contact: May cause skin irritation.
Inhalation: Material is irritating to mucous membranes and upper respiratory tract.
Eye Contact: May irritate eyes.

Additional Information: Effects of acute exposure may include :- dizziness, abdominal cramps, vomiting, headache, mental impairment and cyanosis. Chronic exposure may cause anemia, methemoglobinemia and nephritis.

Acute Test of Product:

Acute Oral LD50: Not Available.
Acute Dermal LD50: Not Available.
Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Potassium Nitrate	Not listed.	Not listed.

Carcinogenicity Comment: Potassium nitrate has not been directly implicated as a carcinogen. However, a constant oral intake of nitrate-containing foods/water could lead to the formation of cancer-causing N-nitroso compounds.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Not Available.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Potassium Nitrate	Not Available.	Not Available.	Not Available.

Other Information:

No additional remark.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: POTASSIUM NITRATE

DOT Hazardous Class 5.1

DOT UN Number: UN1486

DOT Packing Group: III

DOT Reportable Quantity (lbs): Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Proper Shipping Name: POTASSIUM NITRATE

Hazard Class: 5.1

UN Number: UN1486

Packing Group: III

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Potassium Nitrate	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Listed.

New Jersey Right-to-Know List: Listed.

Pennsylvania Right to Know List: Listed.

WHMIS Hazardous Class:

C OXIDIZING MATERIALS

D2B TOXIC MATERIALS



16. OTHER INFORMATION

Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Disclaimer:

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END OF MSDS